Summary of Water Conditions

March 1, 2018

February was almost totally dry, eased only slightly on the last day by the beginnings of a major snowstorm in early March which boosted the snowpack to about one fifth normal. The outlook is not much better than the drought conditions a couple of years ago, except that carryover reservoir storage from the exceedingly wet 2017 will ease the deficit some this year. About one third of the precipitation season is left, so chances of recovery to normal are slim.

Forecasts of median April through July runoff are expected to be only 40 percent of average compared to last year's 180 percent at this time and an eventual 190 percent. The water year forecast this year is only about 50 percent, compared to an actual 220 percent for 2017.

Snowpack water content is about 20 percent of average for this date and only a bit over 15 percent of the April 1 average, the normal peak of the accumulation season. Percentages are a little higher on the east side of the Sierra than the western side. Last year the pack was 185 percent of average.

Precipitation from October through February was 50 percent of average statewide compared to 190 percent last year. The range is from around 60 percent in the north to 25-30 percent in the south.

Runoff to date has been about 45 percent statewide with higher amounts from the higher elevation Sierra rivers, partly a residual from last year. Estimated February runoff was only 25 percent of average. Estimated runoff of the eight major rivers of the Sacramento-San Joaquin River region in February was 0.8 million acre-feet.

Reservoir storage is about 100 percent of average compared to 120 percent last year at this time.

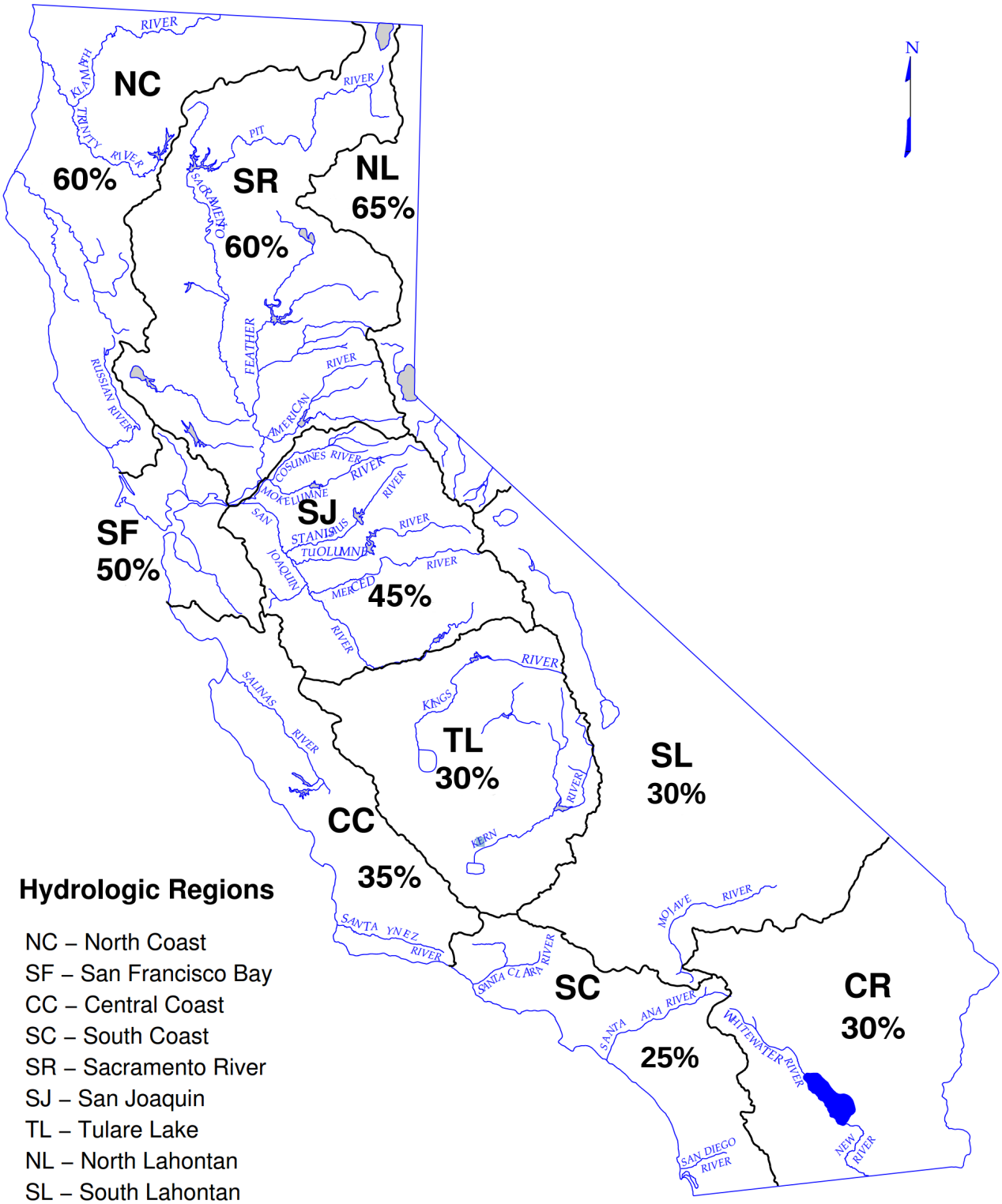
SUMMARY OF WATER CONDITIONS IN PERCENT OF AVERAGE

HYDROLOGIC REGION	PRECIPITATION OCTOBER 1 TO DATE	MARCH 1 SNOW WATER CONTENT	MARCH 1 RESERVOIR STORAGE	RUNOFF OCTOBER 1 TO DATE	APRIL-JULY RUNOFF FORECAST	WATER YEAR RUNOFF FORECAST
NORTH COAST	60	20	95	35	30	35
SAN FRANCISCO BAY	50	--	75	10	--	--
CENTRAL COAST	35	--	60	5	--	--
SOUTH COAST	25	--	85	5	--	--
SACRAMENTO RIVER	60	15	95	50	50	55
SAN JOAQUIN RIVER	45	15	110	50	35	45
TULARE LAKE	30	15	100	50	30	35
NORTH LAHONTAN	65	20	165	120	40	55
SOUTH LAHONTAN	30	30	105	110	55	60
COLORADO RIVER	30	--	--	--	--	--
STATEWIDE	50	15	100	45	40	50

DEPARMENT OF WATER RESOURCES
CALIFORNIA COOPERATIVE SNOW SURVEYS
SEASONAL PRECIPITATION

IN PERCENT OF AVERAGE TO DATE

October 1, 2017 through February 28, 2018

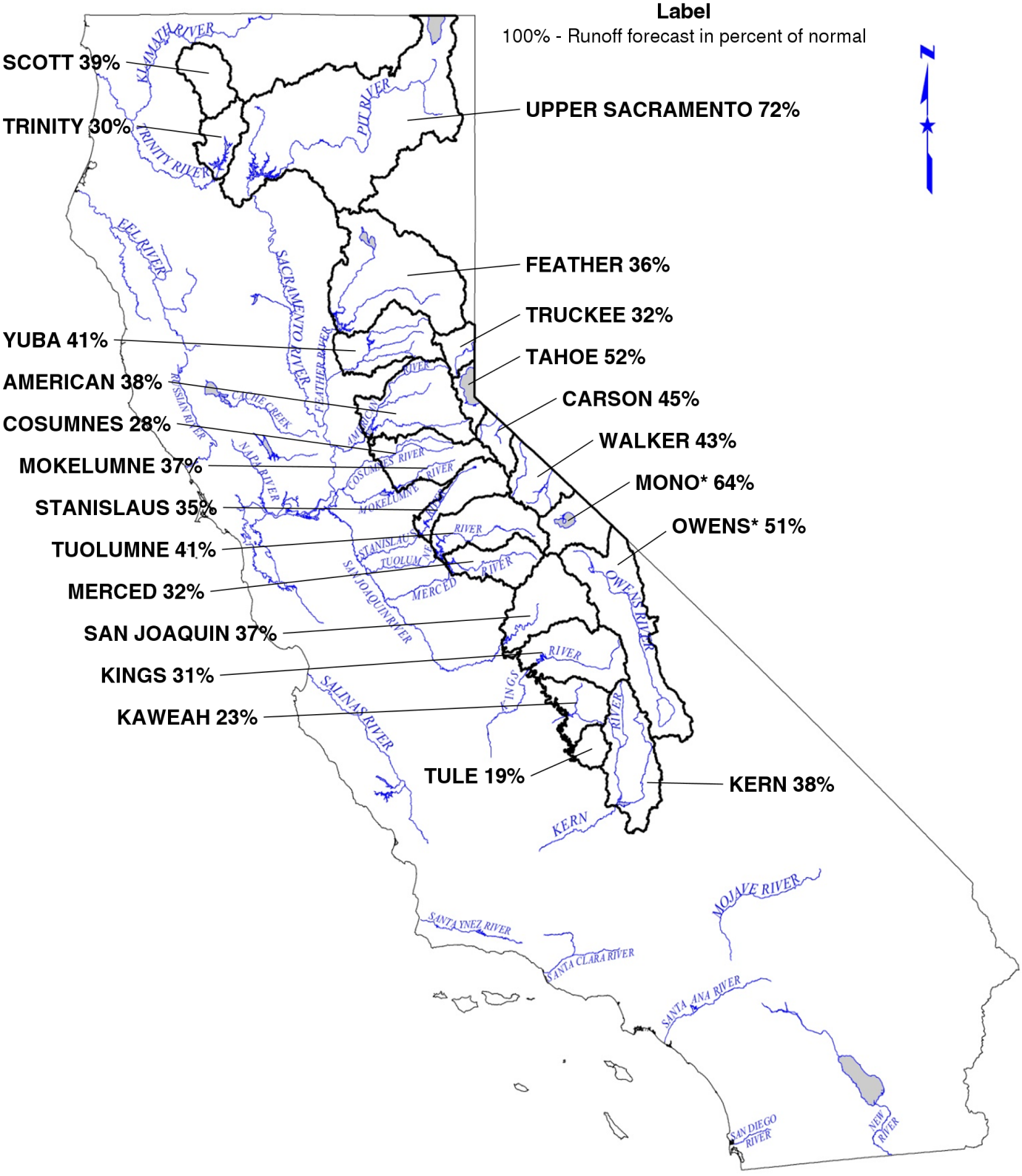


Hydrologic Regions

NC – North Coast
SF – San Francisco Bay
CC – Central Coast
SC – South Coast
SR – Sacramento River
SJ – San Joaquin
TL – Tulare Lake
NL – North Lahontan
SL – South Lahontan
CR – Colorado River–Desert

WATER YEAR IS OCTOBER 1 THROUGH SEPTEMBER 30

DEPARMENT OF WATER RESOURCES
CALIFORNIA COOPERATIVE SNOW SURVEYS
FORECAST OF APRIL-JULY
UNIMPAIRED SNOWMELT RUNOFF
March 1, 2018



* FORECAST BY DEPARTMENT OF WATER AND POWER, CITY OF LOS ANGELES

March 1, 2018 FORECASTS
APRIL-JULY UNIMPAIRED RUNOFF

HYDROLOGIC REGION and Watershed	Apr-Jul Unimpaired Runoff in 1,000 Acre-Feet (1) HISTORICAL 50 Yr Avg (2)	Max of Record (10)	Min of Record (10)	FORECAST Apr-Jul Forecast	Pct of Avg	80% Probability Range (1)
North Coast						
Trinity River at Lewiston Lake	639	1,593	80	**190**	30%	120 - 280
SACRAMENTO RIVER						
Upper Sacramento River						
Sacramento River at Delta above Shasta Lake	295	751	39	125	42%	
McCloud River above Shasta Lake	385	850	185	300	78%	
Pit River near Montgomery Creek + Squaw Creek	1,020	2,098	480	800	78%	
Total Inflow to Shasta Lake	1,756	3,525	711	**1,250**	71%	940 - 1,510
Sacramento River above Bend Bridge, near Red Bluff	2,421	5,117	943	**1,530**	63%	1,130 - 1,870
Feather River						
Feather River at Lake Almanor near Prattville (3)	333	675	120	150	45%	
North Fork at Pulga (3)	1,028	2,416	243	360	35%	
Middle Fork near Clio (4)	86	518	4	30	35%	
South Fork at Ponderosa Dam (3)	110	267	13	35	32%	
Feather River at Oroville	1,704	4,676	378	**610**	36%	390 - 810
Yuba River						
North Yuba below Goodyears Bar	279	647	51	115	41%	
Inflow to Jackson Mdws and Bowman Reservoirs (3)	112	236	25	45	40%	
South Yuba at Langs Crossing (3)	233	481	57	100	43%	
Yuba River near Smartsville plus Deer Creek	968	2,424	151	**400**	41%	260 - 520
American River						
North Fork at North Fork Dam (3)	262	716	43	100	38%	
Middle Fork near Auburn (3)	522	1,406	100	200	38%	
Silver Creek below Camino Diversion Dam (3)	173	386	37	70	40%	
American River below Folsom Lake	1,199	3,074	185	**450**	38%	290 - 600
SAN JOAQUIN RIVER						
Cosumnes River at Michigan Bar	125	446	8	**35**	28%	20 - 65
Mokelumne River						
North Fork near West Point (5)	437	829	104	160	37%	
Total Inflow to Pardee Reservoir	457	1,076	75	**170**	37%	120 - 250
Stanislaus River						
Middle Fork below Beardsley Dam (3)	334	702	64	120	36%	
North Fork Inflow to McKays Point Dam (3)	224	503	34	79	35%	
Stanislaus River below Goodwin Reservoir (9)	682	1,710	116	**240**	35%	180 - 360
Tuolumne River						
Cherry Creek & Eleanor Creek near Hetch Hetchy	315	727	97	130	41%	
Tuolumne River near Hetch Hetchy	604	1,392	153	260	43%	
Tuolumne River below La Grange Reservoir (9)	1,193	2,682	301	**490**	41%	350 - 640
Merced River						
Merced River at Pohono Bridge	372	888	80	120	32%	
Merced River below Merced Falls (9)	623	1,588	104	**200**	32%	140 - 260
San Joaquin River						
San Joaquin River at Mammoth Pool (7)	1,026	2,279	235	390	38%	
Big Creek below Huntington Lake (8)	91	264	11	30	33%	
South Fork near Florence Lake (7)	201	511	58	90	45%	
San Joaquin River inflow to Millerton Lake	1,228	3,355	193	**450**	37%	320 - 570
TULARE LAKE						
Kings River						
North Fork Kings River near Cliff Camp (3)	239	565	50	70	29%	
Kings River below Pine Flat Reservoir	1,210	3,113	208	**370**	31%	240 - 490
Kaweah River below Terminus Reservoir	285	814	42	**65**	23%	40 - 90
Tule River below Lake Success	63	259	1	**12**	19%	6 - 19
Kern River						
Kern River near Kernville	384	1,203	83	150	39%	
Kern River inflow to Lake Isabella	458	1,657	57	**175**	38%	115 - 245

(1) See inside the back cover for definition.
(2) All 50 year averages are based on years 1966-2015 unless otherwise noted.
(3) 50 year average based on years 1941-90.
(4) 44 year average based on years 1936-79.
(5) 36 year average based on years 1936-72.
(6) 45 year average based on years 1936-81.
(7) 50 year average based on years 1953-2002.
(8) 50 year average based on years 1946-1995.

March 1, 2018 FORECASTS
WATER YEAR UNIMPAIRED RUNOFF

Water Year Unimpaired Runoff in 1,000 Acre-Feet (1)

HISTORICAL			DISTRIBUTION									FORECAST			
50 Yr Avg (2)	Max of Record (10)	Min of Record (10)	Oct Thru Jan	Feb *	Mar	Apr	May	Jun	Jul	Aug	Sep	Water Year Forecast	Pct of Avg	80% Probability Range (1)	
1,348	2,990	200	135	43	76	85	75	27	3	1	0	**445**	33%	345 -	575
860	1,966	165	105	27	70	55	40	20	10	7	7	340	40%	- -	-
1,183	2,353	557	326	69	90	100	80	65	55	51	50	885	75%	- -	-
3,002	5,150	1,484	716	183	225	260	220	175	145	125	126	2,175	72%	- -	-
5,831	10,796	2,479	1,156	254	600	460	355	240	195	178	177	**3,615**	62%	3,065 -	4,075
8,544	17,180	3,294	1,582	325	800	550	430	305	245	205	208	**4,650**	54%	3,930 -	5,260
780	1,269	366													
2,417	4,400	666													
219	637	24													
291	562	32													
4,407	10,178	995	843	181	440	260	170	100	80	66	56	**2,195**	50%	1,770 -	2,580
564	1,056	102													
181	292	30													
379	565	98													
2,268	5,604	369	488	88	272	190	155	40	15	8	9	**1,265**	56%	1,020 -	1,475
616	1,234	66													
1,070	2,575	144													
318	705	59													
2,626	7,391	349	502	98	299	215	180	50	5	0	1	**1,350**	51%	1,080 -	1,605
379	1,253	20	43	9	38	20	11	3	1	0	0	**125**	33%	90 -	190
626	1,009	197													
748	1,901	129	106	18	60	70	80	18	2	1	0	**355**	47%	285 -	465
471	929	88													
-	-	-													
1,149	3,078	155	154	29	87	100	100	35	5	1	0	**510**	44%	425 -	675
461	1,147	123													
770	1,661	258													
1,909	4,631	383	229	34	142	165	220	90	15	3	1	**900**	47%	715 -	1,095
461	1,020	92													
992	2,787	150	73	16	67	75	95	25	5	0	0	**355**	36%	275 -	440
1,337	2,964	308													
112	298	14													
248	653	71													
1,793	4,642	327	130	27	98	125	200	95	30	13	6	**725**	40%	560 -	880
284	607	58													
1,702	4,287	359	116	23	73	100	175	70	25	10	7	**600**	35%	435 -	750
451	1,402	89	28	7	23	24	30	9	2	1	1	**125**	28%	90 -	160
147	615	10	13	3	8	7	4	1	0	0	0	**36**	24%	25 -	50
558	1,577	163													
728	2,318	130	103	18	26	45	65	45	20	10	8	**340**	47%	265 -	430

(9) Forecast point names based on USGS gage names. Stanislaus below Goodwin also known as inflow to New Melones, Tuolumne River below La Grange also known as inflow to Don Pedro, Merced River below Merced Falls also known as inflow to McClure.
(10) For the tributaries, the period of record over which the minimum and maximum values are found does not include years after water year 2011.
* Unimpaired runoff in months prior to forecast date are based on measured flows.

March 1, 2018 FORECASTS
APRIL-JULY UNIMPAIRED RUNOFF

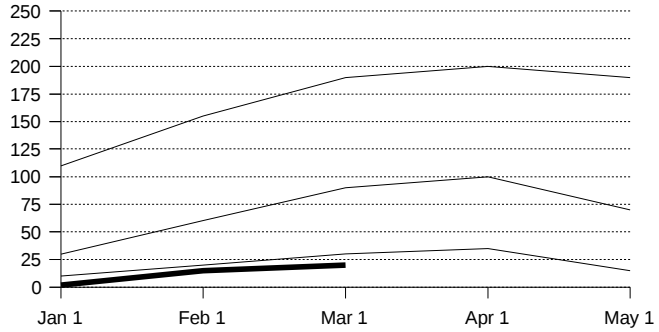
HYDROLOGIC REGION and Watershed	Apr-Jul Unimpaired Runoff in 1,000 Acre-Feet (1) HISTORICAL			FORECAST	
	50 Yr Avg (2)	Max of Record (6)	Min of Record (6)	Apr-Jul Forecast	Pct of Avg
NORTH COAST					
Scott River					
Scott River nr Ft Jones (3)	173	398	22	**67**	39%
Klamath River					
Total inflow to Upper Klamath Lake (4)	475	1,150	149	**298**	63%
NORTH LAHONTAN					
Truckee River					
Lake Tahoe to Farad accretions	250	713	48	**80**	32%
Lake Tahoe Rise (assuming gates closed, ft)	1.3	5.4	0.2	**0.7**	52%
Carson River					
West Fork Carson River at Woodfords	52	135	10	**27**	52%
East Fork Carson River near Gardnerville	182	480	43	**82**	45%
Walker River					
West Walker River below Little Walker, near Coleville	153	410	35	**68**	44%
East Walker River near Bridgeport	61	209	7	**24**	39%
SOUTH LAHONTAN					
Owens River					
Total tributary flow to Owens River (5)	231	579	84	**119**	51%

(1) See inside the back cover for definition.
(2) All 50 year averages are based on years 1966-2015 unless otherwise noted.
(3) Forecast by National Weather Service California-Nevada River Forecast Center. 30 yr average (1981-2010).
(4) Forecast by U.S. Natural Resources Conservation Service and National Weather Service California-Nevada River Forecast Center, April through September forecast, 30 year average based on years 1981-2010.
(5) Forecast by Department of Water and Power, City of Los Angeles, average based on years 1961-2010.
(6) For the tributaries, the period of record over which the minimum values are found does not include years after water year 2011.

NORTH COAST REGION

Snowpack Accumulation

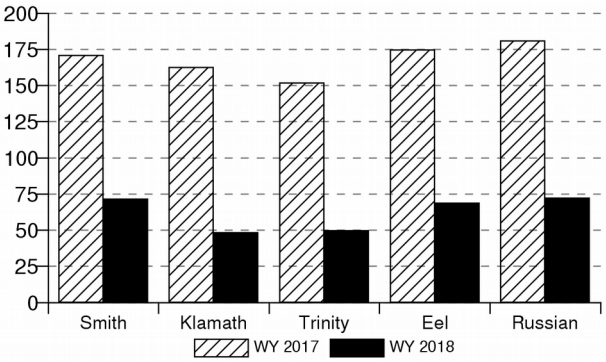
Water Content in % of April 1 Average



SNOWPACK First of the month measurements made at 10 snow courses indicate an area wide snow water equivalent of 4.5 inches. This is 20 percent of the seasonal April 1 average and 20 percent of the March 1 average. Last year this time the pack was holding 34.3 inches of water.

Precipitation

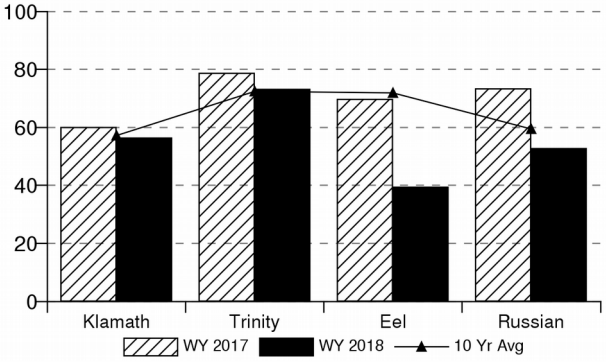
October 1 to date in % of average



PRECIPITATION Seasonal precipitation (October 1 through to the end of February) on this area was 60 percent of normal. Precipitation last month was about 25 percent of the monthly average. Season precipitation at this time last year stood at 165 percent of normal.

Reservoir Storage

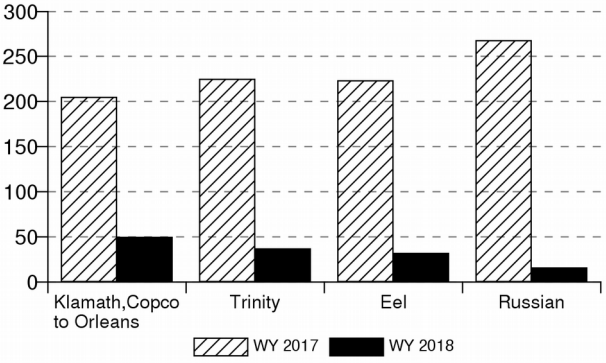
Contents of major reservoirs in % of capacity



RESERVOIR STORAGE First of the month storage at 6 reservoirs was 2.12 million acre-feet which is 95 percent of average. About 70 percent of available capacity was being used. Storage in these reservoirs at this time last year was 110 percent of average.

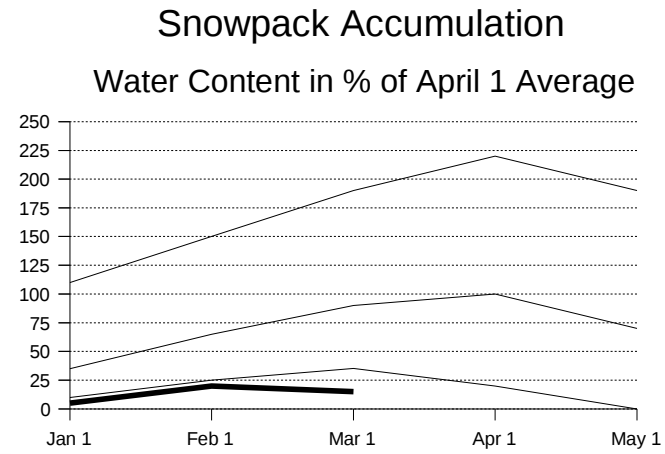
Runoff

October 1 to date in % of average

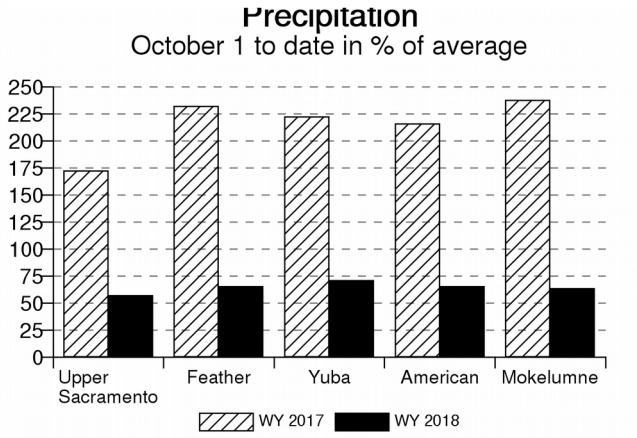


RUNOFF Seasonal runoff of streams draining this area totaled 2.53 million acre-feet which is 35 percent of average. Last year, runoff for the same period was 220 percent of average.

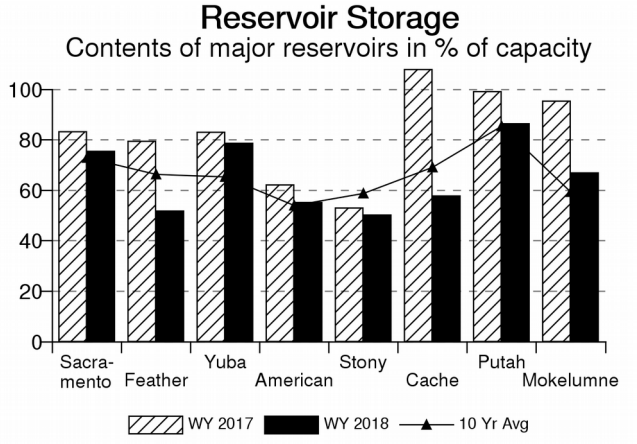
SACRAMENTO RIVER REGION



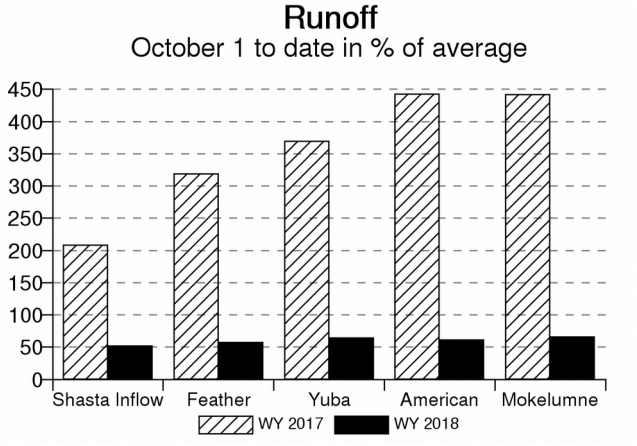
SNOWPACK First of the month measurements made at 68 snow courses indicate an area wide snow water equivalent of 4.8 inches. This is 15 percent of the seasonal April 1 average and 20 percent of the March 1 average. Last year this time the pack was holding 41.1 inches of water.



PRECIPITATION Seasonal precipitation (October 1 through to the end of February) on this area was 60 percent of normal. Precipitation last month was about 15 percent of the monthly average. Season precipitation at this time last year stood at 200 percent of normal.



RESERVOIR STORAGE First of the month storage at 43 reservoirs was 10.60 million acre-feet which is 95 percent of average. About 65 percent of available capacity was being used. Storage in these reservoirs at this time last year was 120 percent of average.



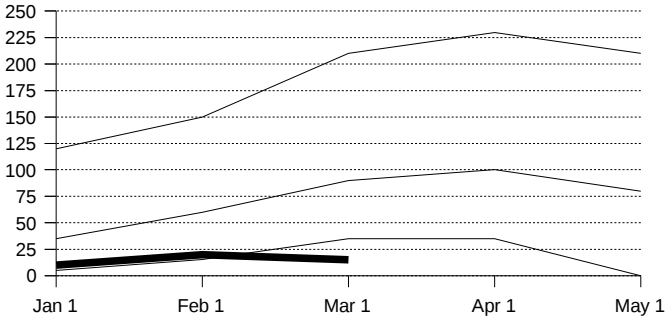
RUNOFF Seasonal runoff of streams draining this area totaled 4.11 million acre-feet which is 50 percent of average. Last year, runoff for the same period was 280 percent of average.

The **Sacramento Region 40-30-30 Water Supply Index** is forecast to be 6.0 assuming median meteorological conditions for the remainder of the year. This classifies the year as "dry" in the Sacramento Valley according to the State Water Resources Control Board.

SAN JOAQUIN RIVER AND TULARE LAKE REGIONS

Snowpack Accumulation

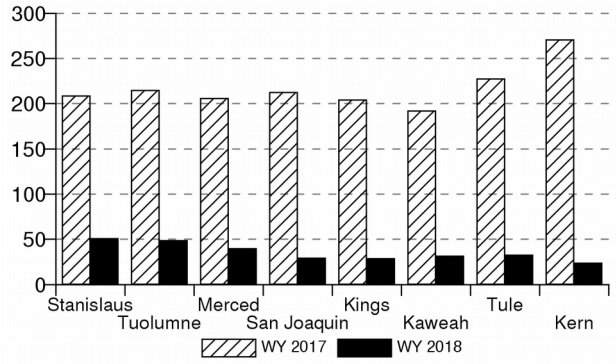
Water Content in % of April 1 Average



SNOWPACK- First of the month measurements made at 63 **San Joaquin Region** snow courses indicate an area wide snow water equivalent of 5.8 inches. This is 15 percent of the seasonal April 1 average and 20 percent of the March 1 average. Last year this time the pack was Holding 54.3 inches of water. At the same time 36 **Tulare Lake** snow courses indicate a basin-wide snow water equivalent of 4.0 inches. This is 15 percent of the seasonal April 1 average and 20 percent of the March 1 average. Last year this time the pack was holding 47.4 inches of water.

Precipitation

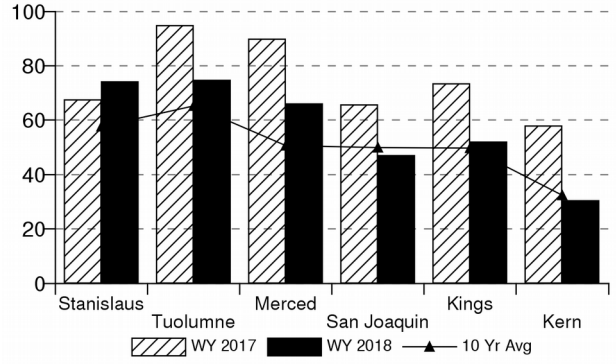
October 1 to date in % of average



PRECIPITATION- Seasonal precipitation (October 1 through to the end of February) on the **San Joaquin Region** was 45 percent of normal. Precipitation last month was about 15 percent of the monthly average. Season precipitation at this time last year stood at 215 percent of normal. Seasonal precipitation (October 1 through to the end of February) on the **Tulare Lake Region** was 30 percent of normal. Precipitation last month was about 20 percent of the monthly average. Season precipitation at this time last year stood at 215 percent of normal.

Reservoir Storage

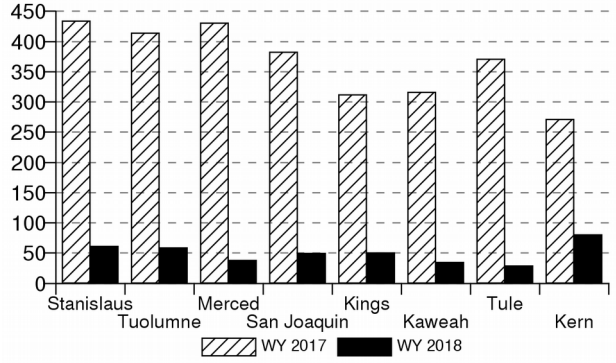
Contents of major reservoirs in % of capacity



RESERVOIR STORAGE- First of the month storage in 34 **San Joaquin Region** reservoirs was 8 million acre-feet which is 110 percent of average. About 70 percent of available capacity was being used. Storage in these reservoirs at this time last year was 135 percent of average. First of the month storage in 6 **Tulare Lake Region** reservoirs was 830 thousand acre-feet which is 100 percent of average. About 40 percent of available capacity was being used. Storage in these reservoirs at this time last year was 160 percent of average.

Runoff

October 1 to date in % of average



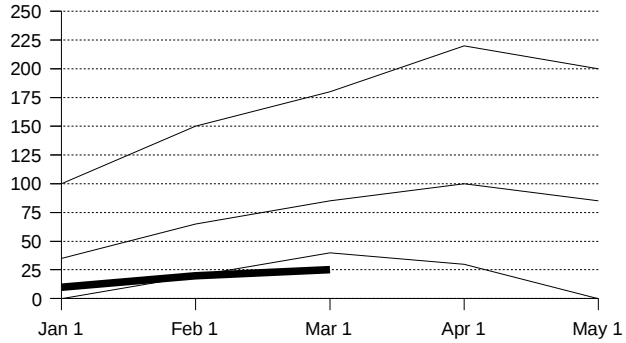
RUNOFF- Seasonal runoff of streams draining the **San Joaquin Region** totaled 868 thousand acre-feet which is 50 percent of average. Last year, runoff for the same period was 425 percent of average. Seasonal runoff of streams draining the **Tulare Lake Region** area totaled 311 thousand acre-feet which is 50 percent of average. Last year, runoff for the same period was 300 percent of average.

The **San Joaquin Region 60-20-20 Water Supply Index** is forecast to be 1.8 assuming 75 percent of median meteorological conditions. This classifies the year as "critical" in the San Joaquin according to the State Water Resources Control Board.

NORTH AND SOUTH LAHONTAN REGIONS

Snowpack Accumulation

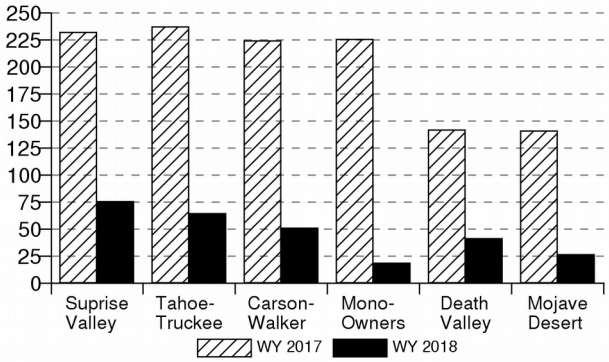
Water Content in % of April 1 Average



SNOWPACK First of the month measurements made at 11 **North Lahontan Region** snow courses indicate an area wide snow water equivalent of less than 7.2 inches. This is 20 percent of the seasonal April 1 average and 25 percent of the March 1 average. Last year this time the pack was holding 47.5 inches of water. At the same time 17 **South Lahontan Region** snow courses indicate a basin-wide snow water equivalent of less 7.9 inches. This is 30 percent of the seasonal April 1 average and 35 percent of the March 1 average. Last year this time the pack was holding 45.8 inches of water.

Precipitation

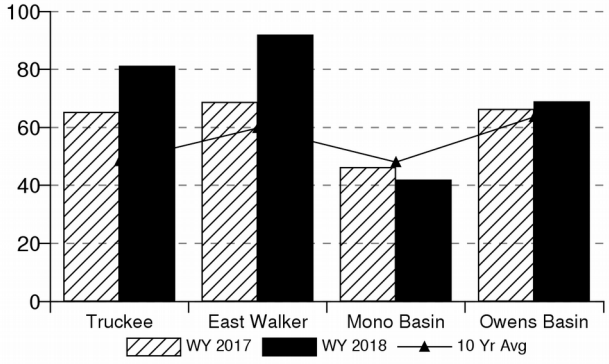
October 1 to date in % of average



PRECIPITATION Seasonal precipitation (October 1 through to the end of February) on the **North Lahontan Region** was 65 percent of normal. Precipitation last month was about 35 percent of the monthly average. Season precipitation at this time last year stood at 235 percent of normal. Seasonal precipitation (October 1 through to the end of February) on the **South Lahontan Region** was 30 percent of normal. Precipitation last month was about 10 percent of the monthly average. Season precipitation at this time last year stood at 165 percent of normal.

Reservoir Storage

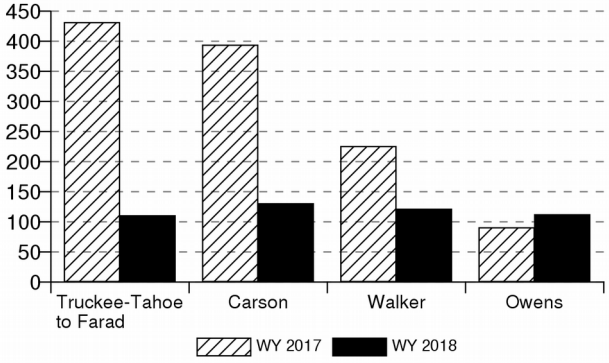
Contents of major reservoirs in % of capacity



RESERVOIR STORAGE First of the month storage in 5 **North Lahontan Region** reservoirs was 874 thousand acre-feet which is 165 percent of average. About 80 percent of available capacity was being used. Storage in these reservoirs at this time last year was 135 percent of average. First of the month storage in 8 **South Lahontan Region** reservoirs was 281 thousand acre-feet which is 105 percent of average. About 65 percent of available capacity was being used. Storage in these reservoirs at this time last year was 105 percent of average.

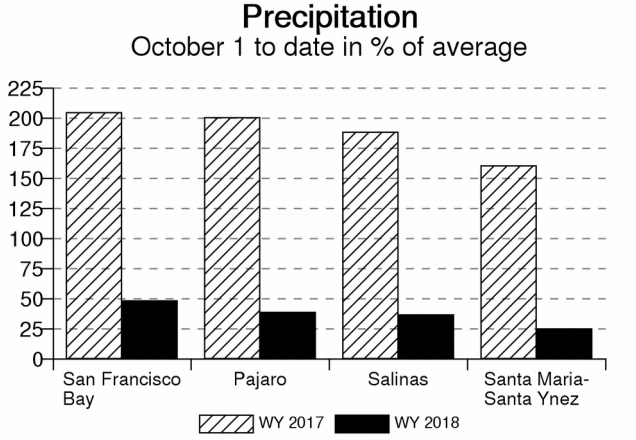
Runoff

October 1 to date in % of average

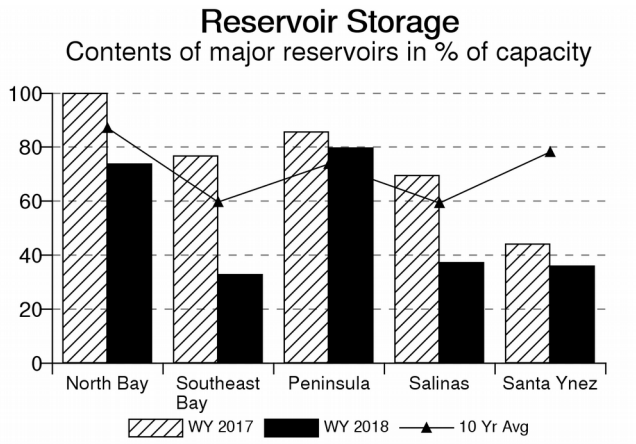


RUNOFF Seasonal runoff of streams draining the **North Lahontan Region** totaled 230 thousand acre-feet which is 120 percent of average. Last year, runoff for the same period was 370 percent of average. Seasonal runoff of streams draining the **South Lahontan Region** area totaled 60 thousand acre-feet which is 110 percent of average. Last year, runoff for the same period was 90 percent of average.

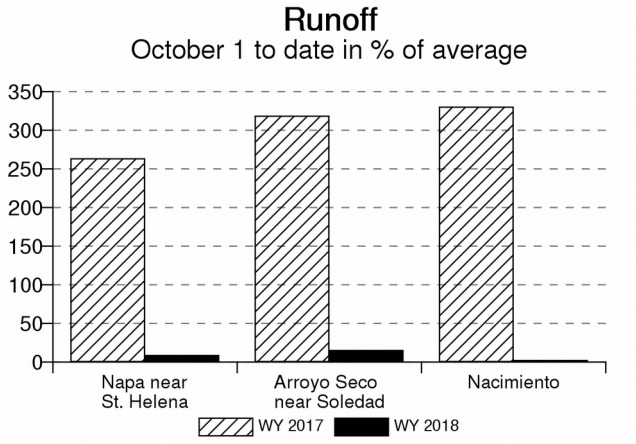
SAN FRANCISCO BAY AND CENTRAL COAST REGIONS



PRECIPITATION Seasonal precipitation (October 1 through to the end of February) on the **San Francisco Bay Region** was 50 percent of normal. Precipitation last month was about 10 percent of the monthly average. Season precipitation at this time last year stood at 200 percent of normal. Seasonal precipitation (October 1 through to the end of February) on the **Central Coast Region** was 35 percent of normal. Precipitation last month was about 5 percent of the monthly average. Season precipitation at this time last year stood at 195 percent of normal.



RESERVOIR STORAGE First of the month storage in 17 **San Francisco Region** 43 reservoirs was 388 thousand acre-feet which is 75 percent of average. About 55 percent of available capacity was being used. Storage in these reservoirs at this time last year was 120 percent of average. First of the month storage in 6 **Central Coast Region** reservoirs was 350 thousand acre-feet which is 55 percent of average. About 35 percent of available capacity was being used. Storage in these reservoirs at this time last year was 100 percent of average.



RUNOFF Seasonal runoff of streams draining the **San Francisco Region** totaled 4.0 thousand acre-feet million acre-feet which is 10 percent of average. Last year, runoff for the same period was 260 percent of average. Seasonal runoff of streams draining the **Central Coast Region** area totaled 13 thousand acre-feet million acre-feet which is 5 percent of average. Last year, runoff for the same period was 325 percent of average.

SOUTH COAST AND COLORADO RIVER REGIONS

PRECIPITATION - October through February (seasonal) precipitation on the **South Coast Region** was 25 percent of normal. February precipitation was 10 percent of the monthly average. Seasonal precipitation at this time last year was 175 percent of normal. Seasonal precipitation on the **Colorado River-Desert Region** was 30 percent of normal and last year's seasonal precipitation on the **Colorado River-Desert Region** was 170 percent of normal. Precipitation in February was 10 percent of average.

RESERVOIR STORAGE - March 1 storage in 29 major **South Coast Region** reservoirs was 1,18 million acre-feet or 85 percent of average. About 55 percent of available capacity was being used. Storage in these reservoirs at this time last year was about 95 percent of average. On March 1 combined storage in Lakes Powell, Mead, Mohave and Havasu was about 26.3 million acre-feet or about 70 percent of average. About 50 percent of available capacity was in use. Last year at this time, these reservoirs were storing about 24.3 million acre-feet.

RUNOFF - Seasonal runoff from selected **South Coast Region** streams is 4 thousand acre-feet for 5 percent of average. Seasonal runoff from these streams last year was 105 percent of average.

COLORADO RIVER - The April -July inflow to Lake Powell is forecast to be 3.4 million acre-feet, which is 47 percent of average. The March 1 snowpack was 70 percent, highest in the Upper Green at 110 percent of average and lowest on the Animas, Colorado River Plateaus and Price/San Rafael at 45%.

MAJOR WATER DISTRIBUTION PROJECTS
RESERVOIR STORAGE
(AVERAGES BASED ON 1966-2015 OR PERIOD RECORD)

RESERVOIR	CAPACITY 1,000 AF	AVERAGE STORAGE 1,000 AF	STORAGE AT END OF February 2017 1,000 AF	2018 1,000 AF	PERCENT AVERAGE	PERCENT CAPACITY
STATE WATER PROJECT						
Lake Oroville	3,538	2,442	2,706	1,460	60%	41%
San Luis Reservoir (SWP)	1,062	914	1,068	697	76%	66%
Lake Del Valle	77	35	40	26	75%	34%
Lake Silverwood	78	67	70	71	106%	91%
Pyramid Lake	180	163	165	166	102%	92%
Castaic Lake	325	277	301	262	95%	81%
Perris Lake	131	105	58	74	71%	57%
CENTRAL VALLEY PROJECT						
Trinity Lake	2,448	1,771	1,922	1,787	101%	73%
Lake Shasta	4,552	3,284	3,779	3,414	104%	75%
Whiskeytown Lake	241	207	224	206	99%	85%
Folsom Lake	977	537	404	526	98%	54%
New Melones Reservoir	2,400	1,456	1,578	1,920	132%	80%
Millerton Lake	521	335	421	329	98%	63%
San Luis Reservoir (CVP)	971	786	923	841	107%	87%
COLORADO RIVER PROJECT						
Lake Mead	26,159	19,321	10,838	10,703	55%	41%
Lake Powell	24,322	16,732	11,217	13,346	80%	55%
Lake Mohave	1,810	1,672	1,690	1,704	102%	94%
Lake Havasu	648	555	586	590	106%	91%
EAST BAY MUNICIPAL UTILITY DISTRICT						
Pardee Res	204	180	204	186	103%	91%
Camanche Reservoir	417	250	396	303	121%	73%
East Bay (4 res.)	159	130	146	122	94%	77%
CITY AND COUNTY OF SAN FRANCISCO						
Hetch-Hetchy Reservoir	360	171	311	289	169%	80%
Cherry Lake	268	155	238	48	31%	18%
Lake Eleanor	29	11	22	9	77%	30%
South Bay/Peninsula (4 res.)	238	166	181	130	78%	54%
CITY OF LOS ANGELES (D.W.P.)						
Lake Crowley	183	126	128	136	108%	74%
Grant Lake	48	28	27	20	74%	43%
Other Aqueduct Storage (6 res.)	238	166	181	130	78%	54%

TELEMETERED SNOW WATER EQUIVALENTS

March 1, 2018

(AVERAGES BASED ON PERIOD RECORD)

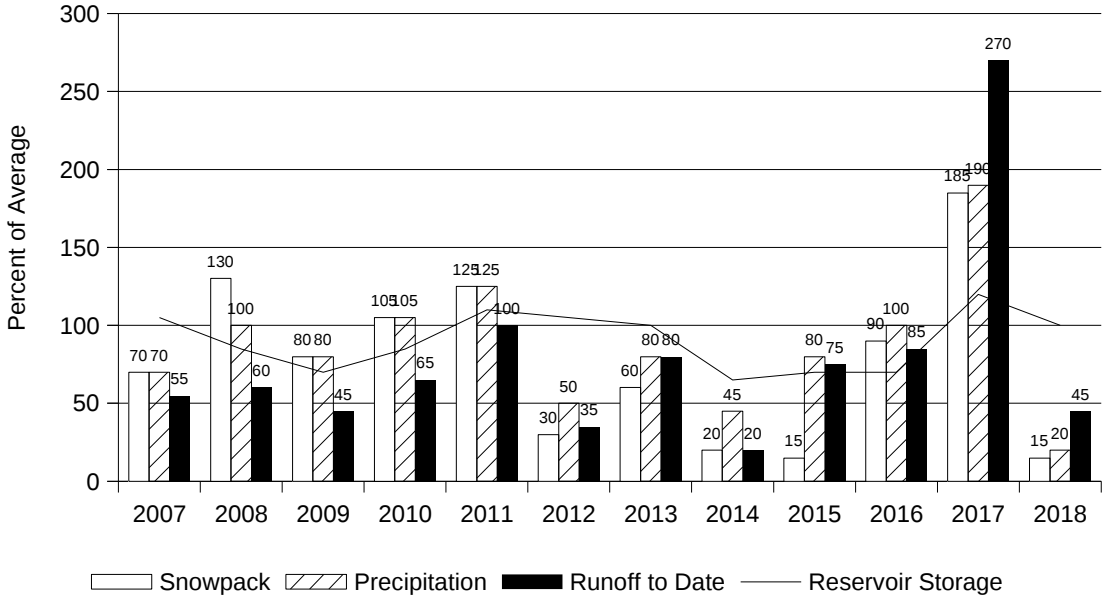
BASIN NAME / STATION NAME	ELEV	APRIL 1 AVERAGE	INCHES OF WATER EQUIVALENT Mar 1	PERCENT OF AVERAGE	24 HRS PREVIOUS	1 WEEK PREVIOUS
TRINITY RIVER						
Shimmy Lake	6400'	40.3	1.4	3.5	0.5	0.6
Crowder Flat	5100'	-	0.9	-	0.8	0.0
Highland Lakes	6030'	29.9	2.6	8.8	1.9	1.0
Mumbo Basin	5650'	22.4	0.6	2.7	0.0	0.0
Bonanza King	6450'	40.5	-	-	-	-
Red Rock Mountain	6700'	39.6	14.2	35.7	12.2	10.7
Big Flat	5100'	15.8	4.7	29.6	4.0	2.8
Scott Mountain	5900'	16.0	1.3	8.3	0.8	1.1
Peterson Flat	7150'	29.2	2.7	9.1	2.1	1.0
Middle Boulder 3	6200'	28.3	1.7	6.0	1.5	1.8
SACRAMENTO RIVER						
Blacks Mountain	7050'	12.7	2.4	18.9	2.3	1.0
Cedar Pass	7100'	18.1	8.6	47.5	8.2	6.4
Medicine Lake	6700'	32.6	5.5	16.9	5.5	5.5
Sand Flat	6750'	42.4	-	-	-	-
Slate Creek	5700'	29.0	1.7	5.8	0.8	0.2
Adin Mountain	6200'	13.6	4.3	31.6	3.3	2.0
Stouts Meadow	5400'	36.0	5.8	16.0	4.7	3.8
Snow Mountain	5950'	27.0	6.1	22.7	5.6	5.9
FEATHER RIVER						
Kettle Rock	7300'	25.5	4.1	16.0	3.9	2.5
Gold Lake	6750'	36.5	8.9	24.3	8.5	8.2
Bucks Lake	5750'	44.7	5.9	13.2	4.8	3.8
Harkness Flat	6200'	28.5	3.4	12.1	2.9	2.7
Four Trees	5150'	20.0	3.2	16.2	1.6	0.0
Humbug	6500'	28.0	5.3	18.9	4.9	4.9
Grizzly Ridge	6900'	29.7	5.0	17.0	4.9	3.7
Rattlesnake	6100'	14.0	1.2	8.6	0.7	0.4
Lower Lassen Peak	8250'	-	25.4	-	24.9	29.7
Pilot Peak	6800'	52.6	4.9	9.2	4.3	2.3
EEL RIVER						
Noel Spring	5100'	-	0.4	-	0.1	0.0
YUBA & AMERICAN RIVERS						
Carson Pass	8353'	-	11.7	-	11.1	10.3
Lake Lois	8600'	39.5	-	-	-	-
Forni Ridge	7600'	37.0	-	-	-	-
Silver Lake	7100'	22.7	-	-	-	-
Blue Canyon	5280'	9.0	-	-	-	-
Schneiders	8750'	34.5	18.9	54.9	18.4	17.2
Meadow Lake	7200'	55.5	-	-	-	-
Robbs Powerhouse	5150'	5.2	3.2	61.2	2.6	1.3
Robinson Cow Camp	6480'	-	6.0	-	5.2	3.6
Cent Sierra Snow Lab	6900'	33.6	4.9	14.6	4.4	3.3
Caples Lake	8000'	30.9	6.6	21.4	6.2	5.0
Alpha	7600'	35.9	3.2	9.0	3.1	2.4
Robbs Saddle	5900'	21.4	2.9	13.5	2.3	0.9
Huysink	6600'	42.6	3.5	8.2	3.1	1.7
Van Vleck	6700'	35.9	7.7	21.4	7.0	4.8
Greek Store	5600'	21.0	4.0	18.9	3.7	1.8
MOKELUMNE & STANISLAUS RIVERS						
Highland Meadow	8700'	47.9	14.9	31.0	13.9	12.8
Gianelli Meadow	8400'	55.5	11.5	20.8	11.4	10.6
Bloods Creek	7200'	35.5	0.3	0.8	-	-
Blue Lakes	8000'	33.1	8.3	24.9	7.6	6.4
Mud Lake	7900'	44.9	-	-	-	-
Black Springs	6500'	32.0	3.5	10.9	3.1	2.3
Stanislaus Meadow	7750'	47.5	8.5	17.9	8.4	8.0
Deadman Creek	9250'	37.2	10.0	26.8	9.7	8.5
Lower Relief Valley	8100'	41.2	8.3	20.0	8.0	8.5
TUOLUMNE & MERCED RIVERS						
Dana Meadows	9800'	27.7	10.3	37.3	10.2	9.4
Horse Meadow	8400'	48.6	19.9	40.9	19.6	18.1
Tuolumne Meadows	8600'	22.6	4.7	21.0	4.8	4.6
Slide Canyon	9200'	41.1	16.3	39.7	16.1	14.9
Ostrander Lake	8200'	34.8	7.2	20.7	7.0	5.7
Gin Flat	7050'	34.2	2.5	7.2	2.3	0.8
Tenaya Lake	8150'	33.1	6.7	20.1	6.2	5.2
White Wolf	7900'	-	3.0	-	2.8	3.2
Lower Kibbie Ridge	6700'	27.4	1.9	6.9	1.7	1.0
Paradise Meadow	7650'	41.3	9.3	22.4	8.8	7.0

SAN JOAQUIN RIVER						
Volcanic Knob	10050'	30.1	7.9	26.2	7.8	6.6
Tamarack Summit	7550'	30.5	1.2	3.9	1.1	0.0
Kaiser Point	9200'	37.8	10.3	27.3	10.2	9.8
Huntington Lake	7000'	20.1	2.5	12.5	2.4	1.6
Green Mountain	7900'	30.8	4.3	14.0	4.3	4.0
Poison Ridge	6900'	28.9	2.6	9.1	2.8	2.4
Graveyard Meadow	6900'	18.8	1.0	5.1	0.8	0.0
Agnew Pass	9450'	32.3	12.6	38.9	12.5	10.0
Devils Postpile	7569'	-	1.2	-	0.7	0.3
Chilkoot Meadow	7150'	38.0	0.5	1.3	0.5	0.0
KINGS RIVER						
Bishop Pass	11200'	34.0	4.1	12.1	4.1	3.7
Blackcap Basin	10300'	34.3	-	-	-	-
Mitchell Meadow	9900'	32.9	10.2	31.0	10.1	9.6
Upper Burnt Corral	9700'	34.6	7.8	22.6	7.7	6.7
State Lakes	10300'	29.0	10.6	36.5	10.4	8.5
West Woodchuck Meadow	9100'	32.8	1.2	3.5	1.2	0.5
Big Meadows	7600'	25.9	-	-	-	-
Charlotte Lake	10400'	27.5	-	-	-	0.9
KAWEAH & TULE RIVERS						
Farewell Gap	9500'	34.5	-	-	-	-
Giant Forest	6650'	10.0	1.7	16.8	1.6	0.9
Quaking Aspen	7200'	21.0	4.8	23.0	4.8	2.8
KERN RIVER						
Tunnel Guard Station	8900'	15.6	-	-	-	-
Beach Meadows	7650'	11.0	1.3	12.0	0.8	0.6
Upper Tyndall Creek	11400'	27.7	3.1	11.2	3.1	2.8
Casa Vieja Meadows	8300'	20.9	4.8	23.1	-	-
Pascoes	9150'	24.9	1.5	6.1	1.6	1.6
Wet Meadows	8950'	30.3	1.4	4.6	1.4	0.2
Chagoopa Plateau	10300'	21.8	8.8	40.1	9.1	8.7
Crabtree Meadow	10700'	19.8	-	-	-	-
SURPRISE VALLEY AREA						
Dismal Swamp	7050'	29.2	12.6	43.2	12.3	10.8
TRUCKEE RIVER						
Independence Camp	7000'	21.8	5.4	24.8	5.1	2.4
Independence Lake	8450'	41.4	12.2	29.5	12.1	11.2
Squaw Valley Gold Coast	8200'	46.5	-	-	-	15.5
Truckee 2	6400'	14.3	3.8	26.6	3.4	1.5
Independence Creek	6500'	12.7	2.6	20.5	2.3	0.9
Big Meadows	8700'	25.7	-	-	-	8.0
LAKE TAHOE BASIN						
Rubicon Peak 2	7500'	29.1	3.1	10.7	2.6	1.3
Tahoe City Cross	6750'	16.0	1.5	9.4	1.3	0.6
Echo Peak 5	7800'	39.5	-	-	-	10.5
Hagans Meadow	8000'	16.5	2.2	13.3	1.9	0.0
Fallen Leaf Lake	6250'	7.0	1.0	14.3	0.6	0.0
Ward Creek 3	6750'	39.4	9.1	23.1	8.3	6.1
Mount Rose Ski Area	8900'	38.5	18.0	46.8	17.7	16.7
Heavenly Valley	8800'	28.1	11.9	42.3	11.5	8.8
Marlette Lake	8000'	21.1	6.0	28.4	5.8	-
CARSON RIVER						
Spratt Creek	6150'	4.5	1.3	28.9	1.0	0.3
Horse Meadow	8400'	48.6	19.9	40.9	19.6	18.1
Burnside Lake	8129'	-	8.4	-	7.6	5.5
Monitor Pass	8350'	-	5.6	-	5.3	4.7
Poison Flat	7900'	16.2	5.3	32.7	4.5	0.0
Forestdale Creek	8017'	-	-	-	-	7.9
Ebbetts Pass	8700'	38.8	-	-	-	-
WALKER RIVER						
Sonora Pass Bridge	8750'	26.0	7.2	27.7	7.1	6.1
Virginia Lakes Ridge	9300'	20.3	5.7	28.1	5.4	3.4
Lobdell Lake	9200'	17.3	5.8	33.5	5.7	5.0
Summit Meadow	9313'	-	6.8	-	6.6	5.5
Leavitt Meadows	7200'	8.0	0.3	3.8	0.4	0.3
Leavitt Lake	9600'	-	22.4	-	21.4	19.7
OWENS RIVER/MONO LAKE						
Cottonwood Lakes	10150'	11.6	4.2	36.1	4.8	-
Gem Pass	10750'	31.7	8.1	25.5	8.0	7.7
Rock Creek Lakes	9700'	14.0	2.2	15.6	2.1	0.8
South Lake	9600'	16.0	3.7	23.3	3.7	3.0
Big Pine Creek	9800'	17.9	2.5	14.0	2.4	1.7
Sawmill	10200'	19.4	4.1	21.3	4.0	3.1

NORMAL SNOWPACK ACCUMULATION EXPRESSED AS A PERCENT OF APRIL 1ST AVERAGE

AREA	JANUARY	FEBRUARY	MARCH	APRIL	MAY
Central Valley North	45%	70%	90%	100%	75%
Central Valley South	45%	65%	85%	100%	80%
North Coast	40%	60%	85%	100%	80%

March 1 Statewide Conditions



SNOWLINES

Registration is now open for the **86th annual Western Snow Conference** to be held in Albuquerque, NM April 16-19, 2018. We expect to have a full agenda of informative and interesting presentations related to snow hydrology, meteorological measurement techniques, and water resource management.

Meeting Information:

http://www.westernsnowconference.org/meetings/2018

The Conference will begin Monday, April 16th with a short course "Communicating Complex Environmental Information to Broad Audiences". Tuesday and Wednesday will include formal paper and poster presentations on a variety of topics, including climate variability, climate change impacts on snow and runof, water management, water supply forecasting, and modeling and climatology of snow. Thursday will include a technical tour of the nearby Rio Grande Valley

Pictured on this month's cover is the Gin Flat Snow Sensor in Yosemite National Park following the February 28 through March 5 storm which increased the snow water equivalent at this site by nearly 8". Photo by Harrison Forrester, Hydrologist, Yosemite National Park...